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A. Harris

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/274,752D

DATE: 05/01/2001

TIME: 18:10:05

Input Set : A:\A-67501.app

Output Set: N:\CRF3\05012001\I274752D.raw

~~PH/17~~

ENTERED

3 <110> APPLICANT: Goetzl, Edward L.
4 An, Songzhu
6 <120> TITLE OF INVENTION: Human Polypeptide Receptors for Lysophospholipids and
7 Sphingolipids and Nucleic Acids Encoding the Same
9 <130> FILE REFERENCE: A-67501/DJB/TAL
11 <140> CURRENT APPLICATION NUMBER: 09/274,752D
12 <141> CURRENT FILING DATE: 1999-03-23
14 <160> NUMBER OF SEQ ID NOS: 29
16 <170> SOFTWARE: PatentIn Ver. 2.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 382
20 <212> TYPE: PRT
21 <213> ORGANISM: Homo sapiens
23 <400> SEQUENCE: 1
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25 1 5 10 15
27 Tyr Asn Asn Ser Gly Lys Glu Leu Ser Ser His Trp Arg Pro Lys Asp
28 20 25 30
30 Val Val Val Ala Leu Gly Leu Thr Val Ser Val Leu Val Leu Leu
31 35 40 45
33 Thr Asn Leu Leu Val Ile Ala Ala Ile Ala Ser Asn Arg Arg Phe His
34 50 55 60
36 Gln Pro Ile Tyr Tyr Leu Leu Gly Asn Leu Ala Ala Ala Asp Leu Phe
37 65 70 75 80
39 Ala Gly Val Ala Tyr Leu Phe Leu Met Phe His Thr Gly Pro Arg Thr
40 85 90 95
42 Ala Arg Leu Ser Leu Glu Gly Trp Phe Leu Arg Gln Gly Leu Leu Asp
43 100 105 110
45 Thr Ser Leu Thr Ala Ser Val Ala Thr Leu Leu Ala Ile Ala Val Glu
46 115 120 125
48 Arg His Arg Ser Val Met Ala Val Gln Leu His Ser Arg Leu Pro Arg
49 130 135 140
51 Gly Arg Val Val Met Leu Ile Val Gly Val Trp Val Ala Ala Leu Gly
52 145 150 155 160
54 Leu Gly Leu Leu Pro Ala His Ser Trp His Cys Leu Cys Ala Leu Asp
55 165 170 175
57 Arg Cys Ser Arg Met Ala Pro Leu Leu Ser Arg Ser Tyr Leu Ala Val
58 180 185 190
60 Trp Ala Leu Ser Ser Leu Leu Val Phe Leu Leu Met Val Ala Val Tyr
61 195 200 205
63 Thr Arg Ile Phe Phe Tyr Val Arg Arg Arg Val Gln Arg Met Ala Glu
64 210 215 220
66 His Val Ser Cys His Pro Arg Tyr Arg Glu Thr Thr Leu Ser Leu Val
67 225 230 235 240
69 Lys Thr Val Val Ile Ile Leu Gly Ala Phe Val Val Cys Trp Thr Pro
70 245 250 255
72 Gly Gln Val Val Leu Leu Leu Asp Gly Leu Gly Glu Ser Cys Asn

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73 260 265 270
 75 Val Leu Ala Val Glu Lys Tyr Phe Leu Leu Leu Ala Glu Ala Asn Ser
 76 275 280 285
 78 Leu Val Asn Ala Ala Val Tyr Ser Cys Arg Asp Ser Glu Met Arg Arg
 79 290 295 300
 81 Thr Phe Arg Arg Leu Leu Cys Cys Ala Cys Leu Arg Gln Ser Thr Arg
 82 305 310 315 320
 84 Glu Ser Val His Tyr Thr Ser Ser Ala Gln Gly Gly Ala Ser Thr Arg
 85 325 330 335
 87 Ile Met Leu Pro Glu Asn Gly His Pro Leu Met Thr Pro Pro Phe Ser
 88 340 345 350
 90 Tyr Leu Glu Leu Gln Arg Tyr Ala Ala Ser Asn Lys Ser Thr Ala Pro
 91 355 360 365
 93 Asp Asp Leu Trp Val Leu Leu Ala Gln Pro Asn Gln Gln Asp
 94 370 375 380
 97 <210> SEQ ID NO: 2
 98 <211> LENGTH: 1734
 99 <212> TYPE: DNA
 100 <213> ORGANISM: Homo sapiens
 102 <400> SEQUENCE: 2
 103 ggcacgaggc gcccggccat gggcctcgag cccgccccga acccccgcga gcccgccttg 60
 104 tctgcggcgt gactggagc ccagatggc atcatggcc agtgcataca caacgagacc 120
 105 atccgcttct tctataacaa cagtggcaaa gagctcagct cccactggcg gccaaggat 180
 106 gtgtcgtgg tggcactgg gctgaccgtc agcgtgctgg tgctgctgac caatctgctg 240
 107 gtcatacgac ccatcgccctc caaccggcgc ttccaccaggc ccatctacta cctgctcgcc 300
 108 aatctggccg cggctgacct cttcgccggc gtggcctacc tcttcctcat gttccacact 360
 109 ggtcccccga cagcccgact ttcaactttag ggtctggttcc tgccggcaggc cttgctggac 420
 110 acaagectca ctgcgtcggt ggccacactg ctggccatcg ccgtggagct gcaccgcagt 480
 111 gtatgtccg tgcagctgca cagccgcctg cccctggcc gctgtgtcat gtcatttg 540
 112 ggcgtgtggg tggctgccc gggcttgggg ctgtgtccctg cccactctg gcactgcctc 600
 113 tggccctgg accgtgtc acgtatggca cccctgtctca ggcgtctcta tttggccgtc 660
 114 tggctctgt cgagccgtc tgcgttccctg ctcatgttgc ctgtgtacac ccgcattttc 720
 115 ttctacgtgc ggcggcgagt gcagccgtc gcagagcatg tcactgtcca ccccgctac 780
 116 cgagagacca cgctcagcct ggtcaagact gttgtcatca tccctggggc gttcgtggc 840
 117 tgctggacac caggccaggt ggtactgtc ctggatgggt taggctgtga gtccgtcaat 900
 118 gtctggctg tagaaaaatg cttccatctg ttggccagg ccaactact ggtcaatgt 960
 119 gctgtgtact cttggcaga gtcgtgatg cgccgcacct tccggccct tctctgtc 1020
 120 gctgcctcc gccagtcac ccgcgaggtc gtccactata catcctctgc ccagggaggt 1080
 121 gccagcactc gcatcatgtc tcccgagaac ggcacccac tgatgactcc accctttac 1140
 122 taccttgaac ttcagcggtt cgcggcaagc aacaaatcca cagccctga tgacttgg 1200
 123 gtgtcgtgg ctcaacccaa ccaacaggac tgactgactg gcaggacaag gtctggcatg 1260
 124 gcacagcacc actgccaggc ctccccaggc acaccactct gcccaggaa tggggcttt 1320
 125 gggtcatctc ccactgcctg ggggagtcag atgggggtgca ggaatctggc tcttcagcca 1380
 126 tctcagggtt aggggggttta acagacat tattctgttt tcaactgcgtt ctcctggtaa 1440
 127 gcccgtggta ctggtaatg ctgtgtatg ctggatgggtt taagggtggg agagataagg 1500
 128 gctctctgg gccatgtac ccggatgtac tgggtaatga ggacagactg tggacacccc 1560
 129 atctacactga gtctgattt ttagcagcag agactgaggg gtgcagatg tgagctggg 1620
 130 aaggtttggt gtccttgcg gcctccaggc actggcctgt ccccaataga attgaagcag 1680
 131 tccacgggaa ggggatgata caaggatcaa acctttctt acactcaaaa aaaa 1734

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Input Set : A:\A-67501.app
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133 <210> SEQ ID NO: 3
 134 <211> LENGTH: 353
 135 <212> TYPE: PRT
 136 <213> ORGANISM: Homo sapiens
 138 <400> SEQUENCE: 3
 139 Met Gly Ser Leu Tyr Ser Glu Tyr Leu Asn Pro Asn Lys Val Gln Glu
 140 1 5 10 15
 142 His Tyr Asn Tyr Thr Lys Glu Thr Leu Glu Thr Gln Glu Thr Thr Ser
 143 20 25 30
 145 Arg Gln Val Ala Ser Ala Gly Ile Val Ile Leu Cys Cys Ala Ile Val
 146 35 40 45
 148 Val Glu Asn Leu Leu Val Leu Ile Ala Val Ala Arg Asn Ser Lys Phe
 149 50 55 60
 151 His Ser Ala Met Tyr Leu Phe Leu Gly Asn Leu Ala Ala Ser Asp Leu
 152 65 70 75 80
 154 Leu Ala Gly Val Ala Phe Val Ala Asn Thr Leu Leu Ser Gly Ser Val
 155 85 90 95
 157 Thr Leu Arg Leu Thr Pro Val Gln Trp Phe Ala Arg Glu Gly Ser Ala
 158 100 105 110
 160 Ser Ile Thr Leu Ser Ala Ser Val Gly Ser Leu Leu Ala Ile Ala Ile
 161 115 120 125
 163 Glu Arg His Val Ala Ile Ala Lys Val Lys Leu Tyr Gly Ser Cys Lys
 164 130 135 140
 166 Ser Cys Arg Met Leu Leu Ile Gly Ala Ser Trp Leu Ile Ser Leu
 167 145 150 155 160
 169 Val Leu Gly Gly Leu Pro Ile Leu Gly Trp Asn Cys Leu Gly His Leu
 170 165 170 175
 172 Glu Ala Cys Ser Thr Val Leu Pro Leu Tyr Ala Lys His Tyr Val Leu
 173 180 185 190
 175 Cys Val Val Thr Ile Phe Ser Ile Ile Leu Leu Ala Ile Val Ala Leu
 176 195 200 205
 178 Tyr Val Arg Ile Tyr Cys Val Val Arg Ser Ser His Ala Asp Met Ala
 179 210 215 220
 181 Ala Pro Gln Thr Leu Ala Leu Leu Lys Thr Val Thr Ile Val Leu Gly
 182 225 230 235 240
 184 Val Phe Ile Val Cys Trp Leu Pro Ala Phe Ser Ile Leu Leu Leu Asp
 185 245 250 255
 187 Tyr Ala Cys Pro Val His Ser Cys Pro Ile Leu Tyr Lys Ala His Tyr
 188 260 265 270
 190 Phe Phe Ala Val Ser Thr Leu Asn Ser Leu Leu Asn Pro Val Ile Tyr
 191 275 280 285
 193 Thr Trp Arg Ser Arg Asp Leu Arg Arg Glu Val Leu Arg Pro Leu Gln
 194 290 295 300
 196 Cys Trp Arg Pro Gly Val Gly Val Gln Gly Arg Arg Arg Val Gly Thr
 197 305 310 315 320
 199 Pro Gly His His Leu Leu Pro Leu Arg Ser Ser Ser Ser Leu Glu Arg
 200 325 330 335
 202 Gly Met His Met Pro Thr Ser Pro Thr Phe Leu Glu Gly Asn Thr Val
 203 340 345 350

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Input Set : A:\A-67501.app
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205 Val
 209 <210> SEQ ID NO: 4
 210 <211> LENGTH: 1122
 211 <212> TYPE: DNA
 212 <213> ORGANISM: Homo sapiens
 214 <400> SEQUENCE: 4
 215 atggcagct tggactcgga gtacctgaac cccaaacaagg tccaggaaca cttataattat 60
 216 accaaggaga cgctggaaac gcaggagacg acctcccgcc aggtggccctc ggcccttcattc 120
 217 gtcatctctt gttgcgcatt gcaggagacg acctcccgcc aggtggccctc ggcccttcattc 180
 218 gtcatctctt gttgcgcatt tgggtggaa aacattctgg tgctcatttc ggtggccctc 240
 219 aacagcaagt tccactcgcc aatgtacctg tttctggca acctggccgc ctccgatctt 300
 220 ctggcaggcg tggccttcgtt agccaatadd ttgcctctgt gctctgtcac gctgaggctg 360
 221 acgcctgtgc agtggtttgc cggggaggc tctgccttcca tcacgcgttc ggcctctgtc 420
 222 ttcaagcctcc tggccatcgc cattgagcgc cacgtggcca ttgccaaggta caagctgtat 480
 223 ggcagcgaca agagctgcgc catgttctg ctcatcggtt cctcggtgc catctcgctg 540
 224 gtccctcggtt gctgtccat ctttggctgg aactgcctgg gccacctcga ggccctgtcc 600
 225 actgtcttcgc ctctctacgc caagcattat gtgcgtgtgc tggtaccat ctcttcattt 660
 226 atccctgtgg ccatcggtgc cctgtacgtg cgcacatctact gctgtggccg ctcaagccac 720
 227 gctgacatgg cggcccccgc gacgctagcc ctgtctcaaga cggtcaccat cgtgcttaggc 780
 228 gtctttatcg tctgtgtgtt gcccgccttc agcatccttc ttctggacta tgctctgtccc 840
 229 gtccactcctt gccccatctt ctacaaaagcc cactactttt tcggcggttc caccctgaat 900
 230 tccctgtca accccgtcat ctacacgtgg cgcagccggg acctgcggcg ggaggtgtt 960
 231 cggccgctgc agtgcgtggcg gcccgggggtt ggggtgtcaag gacggaggcg ggtcgggacc 1020
 232 cccggccacc acctccttcgc actccgcagc tccagctccc tggagagggg catgcacatg 1080
 233 cccacgttac ccacgtttt gggggcaac acgggtggctt ga 1122
 235 <210> SEQ ID NO: 5
 236 <211> LENGTH: 375
 237 <212> TYPE: DNA
 238 <213> ORGANISM: Homo sapiens
 240 <400> SEQUENCE: 5
 241 gggccatggc tcgagccggc ccgacccccc gggagccgc cttgtctgcg gctgtactgg 60
 242 agggccatgg ggtcatcatg ggccatgtgtt actacaacgc gaccatcgcc ttcttctata 120
 243 acaacatgg caaagagctc agctccactt ggcggccca ggtatgtggc gtgggtggcac 180
 244 tggggctgac cgtcagcgtt ctgggtgtgc tgaccaatct gctggtcata gcaatcg 240
 245 cctccaaccg ccgttccac cagcccatctt actacatgtt cggcaatctg gcccggctg 300
 246 acctcttcgc gggcgtggctt acctcttcgtt catgttccac actggtcccc gcacagcccg 360
 247 acttcaattt ggggg 375
 249 <210> SEQ ID NO: 6
 250 <211> LENGTH: 8
 251 <212> TYPE: PRT
 252 <213> ORGANISM: combination of rat and human.
 254 <400> SEQUENCE: 6
 255 Leu Leu Ala Ile Ala Ile Glu Arg
 256 1 5
 259 <210> SEQ ID NO: 7
 260 <211> LENGTH: 22
 261 <212> TYPE: DNA
 262 <213> ORGANISM: combination of rat and human.
 264 <220> FEATURE:

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Input Set : A:\A-67501.app
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265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (6) /
267 <223> OTHER INFORMATION: The n at position 6 can be g or c.
269 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
271 <222> LOCATION: (12) /
272 <223> OTHER INFORMATION: The n at position 12 can be c or t.
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION: (17) /
277 <223> OTHER INFORMATION: The n at position 17 can be c or t.
279 <220> FEATURE:
280 <221> NAME/KEY: misc_feature
281 <222> LOCATION: (21) /
282 <223> OTHER INFORMATION: The n at position 21 can be a or c.
284 <400> SEQUENCE: 7

W--> 285 ctccctngcca tnngcatngag ng

22

287 <210> SEQ ID NO: 8
288 <211> LENGTH: 8
289 <212> TYPE: PRT
290 <213> ORGANISM: combination of rat and human.
292 <400> SEQUENCE: 8
293 Leu Leu Leu Leu Asp Ser Thr Cys
294 1 5
297 <210> SEQ ID NO: 9
298 <211> LENGTH: 22
299 <212> TYPE: DNA
300 <213> ORGANISM: combination of rat and human.
302 <220> FEATURE:
303 <221> NAME/KEY: misc_feature
304 <222> LOCATION: (4) /
305 <223> OTHER INFORMATION: The n at position 4 can be c or g.
307 <220> FEATURE:
308 <221> NAME/KEY: misc_feature
309 <222> LOCATION: (6) /
310 <223> OTHER INFORMATION: The n at position 6 can be a or c.
312 <220> FEATURE:
313 <221> NAME/KEY: misc_feature
314 <222> LOCATION: (7) /
315 <223> OTHER INFORMATION: The n at position 7 can be a or g.
317 <220> FEATURE:
318 <221> NAME/KEY: misc_feature
319 <222> LOCATION: (8) /
320 <223> OTHER INFORMATION: The n at position 8 can be a or c.
322 <220> FEATURE:
323 <221> NAME/KEY: misc_feature
324 <222> LOCATION: (9) /
325 <223> OTHER INFORMATION: The n at position 9 can be a or g.
327 <220> FEATURE:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/274,752D

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Input Set : A:\A-67501.app

Output Set: N:\CRF3\05012001\I274752D.raw

L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9